

high temperature application

AIR TO WATER HEAT PUMPS



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



Daikin units comply with the European regulations that guarantee the safety of the product.

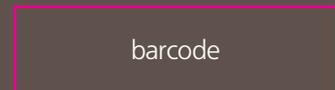
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DAIKIN EUROPE N.V.

Naamloze Vennootschap
Zandvoordestraat 300
B-8400 Oostende, Belgium
www.daikin.eu
BTW: BE 0412 120 336
RPR Oostende



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LESS CO₂ EMISSIONS

You can personally contribute to a better environment as Altherma™ emits no direct CO₂. The pump needs power but even without access to renewable electricity, the Altherma™ system emits far less CO₂ than fossil fuel boilers.

LESS ENERGY,

PLEASANT WARMTH IN YOUR HOME

Altherma™ heats up more efficiently than a traditional heating system based on fossil fuels or electricity. By making use of the heat in the outside air, you use much less energy while still enjoying a stable and pleasant level of comfort.

HIGH PERFORMANCE

Thanks to the cascade technology of Altherma™, a temperature of 80°C can be reached without an additional electric heater.

FLEXIBLE CONFIGURATION

Altherma™ can be configured for use in both new and refurbishment applications, and connects to standard high temperature radiators. If you already have a heating system, there is no need to change your heat emitters.

altherma™ ADVANTAGES CHOOSING ALTHERMA™ ... NOTHING BUT BENEFITS!



COMPLETE COMFORT FOR YOUR FAMILY

Altherma™ satisfies your heating requirements while at the same time it can also supply your domestic hot water.

OUTDOOR



INDOOR



DID YOU KNOW THAT...

Daikin has more than 50 years of experience with heat pumps and provides more than a million of them to homes and commercial applications each year?



➤ HOW DOES THE **altherma™** HEAT PUMP WORK?

➤ AIR TO WATER HEAT PUMP

1A/ OUTDOOR UNIT: AN EFFICIENT USE OF ENERGY FROM THE AIR

Altherma™ uses a natural source of energy. The outdoor unit extracts heat from the outside air and raises its temperature to a level high enough to supply heating. This heat is then transferred to the indoor unit through refrigerant pipes (thus, the additional advantage is that the pipes can never freeze). The outdoor unit is easily installed without drilling or excavation work. Furthermore, the operation of the unit is guaranteed down to -25°C.

1B/ INDOOR UNIT: THE HEART OF THE ALTHERMA™ SYSTEM

The indoor unit heats the water that circulates through high temperature radiators and also provides domestic hot water. Thanks to the unique cascade technology, no electric heater is needed to provide you with the heating comfort you require.

3/ DOMESTIC HOT WATER TANK

As for your domestic hot water, Altherma™ is just as clever. The unique lay-out and special placement of the system components maximise energy efficiency. The water inside the storage tank is warmed up by thermal energy from the outside air, thanks to a heat exchanger connected to the heat pump. With Altherma™ you can enjoy delightfully warm and perfectly safe water at all times. Depending on the daily consumption of hot water, Altherma™ domestic hot water tanks are available in two different sizes.

5/ ROOM THERMOSTAT

With the wired or wireless room thermostat, the ideal temperature can be easily, quickly and conveniently regulated. It allows for more precise measurement and can regulate the comfort level of your customer even more optimally and energy efficiently.